FACT SHEET

Hybrid Intelligence for aDvanced collective awareness and Decision making in complex urban Environments

At a glance

Full Title: HIDDEN (Hybrid Intelligence for Advanced Collective Perception and Decision Making in Complex Urban Environments)

Project ID: 101202228

Funded under: Horizon Europe

Funding scheme: RIA –Research & Innovation Action

Duration: 36 months -- 1 July 2025 – 30 June 2028

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Topic: HORIZON-CL5-2024-D6-01-04

Granting Authority: European Climate, Infrastructure and Environment Executive Agency (CINEA)

Coordinated by: Institute of Communication & Computer Systems (ICCS)

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HIDDEN EU PROJECT

HIDDENEUproject

Description

HIDDEN (Hybrid Intelligence for Advanced Collective Perception and Decision-Making in Complex Urban Environments) is a Horizon Europe research and innovation project that brings together a complementary consortium of 14 partners and 2 affiliated entities across 7 countries to tackle a key challenge in urban mobility: occlusions—the inability of connected and automated vehicles (CAV) to detect road users or objects hidden from their line of sight. HIDDEN is focused on advancing urban mobility through safer, smarter, and more ethical automation. At its core, HIDDEN develops collective awareness systems that enable connected and automated vehicles to detect occluded objects and vulnerable road users in real time. Using hybrid intelligence (HI), the project combines machine with human intelligence to support decision-making that aligns with human driving styles and ethical principles. HIDDEN also addresses the legal, regulatory, and ethical challenges of AI in mobility, ensuring transparency and trust in how decisions are made.

Key innovations include:

- **Advanced behavioral models** for predictive perception
- **Driver gaze tracking** and status monitoring to inform ethical and explainable decisions
- **Simulation and real-world validations** across Europe using 8 consortium-owned autonomous vehicles
- A dedicated **framework for ethical, legal, and regulatory alignment** of AI systems in mobility

Field tests across Europe and virtual simulations will validate the technology in real-world scenarios. Through close collaboration with type approval authorities, standardisation bodies, and key stakeholders, HIDDEN aims to set new benchmarks for safe and socially responsible autonomous mobility in complex urban settings.

Consortium

Funded by the European Union

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